



U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

400 Seventh Street, S.W.  
Washington, D.C. 20590

JUN 1 - 2004

DOT-E 8060  
(EIGHTH REVISION)

EXPIRATION DATE: April 30, 2006

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Arbel-Fauvet-Rail  
Paris, France  
(U.S. Agent: (Mary-Hoyt S. Joyce  
Chevy Chase, MD)

(See Appendix A to this exemption for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain nonflammable and flammable, liquefied gases in non-DOT specification IMO 5 portable tanks. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.

b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.315(a) in that non-DOT specification IMO 5 portable tanks are not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of Arbel-Fauvet-Rail dated April 23, 2004, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Chlorodifluoromethane, or refrigerant gas R 22	2.2	UN1018	N/A
Chloropentafluoroethane, or refrigerant gas R 115	2.2	UN1020	N/A
Chlorodifluoromethane and chloropentafluoroethane mixture or refrigerant gas R 502 with <i>fixed boiling point with, approximately 49 percent Chlorodifluoromethane</i>	2.2	UN1973	N/A
Chlorodifluorobromomethane, or refrigerant gas R 12B1	2.2	UN1974	N/A
1-Chloro-1, 1-difluoroethanes, or refrigerant gas R 142b	2.1	UN2517	N/A
Dichlorodifluoromethane, or refrigerant gas R 12	2.2	UN1028	N/A
1,1,1,2-Tetrafluoroethane, or refrigerant gas R 134a	2.2	UN3159	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a non-DOT specification portable tank, mounted in an ISO frame, designed and constructed in accordance with Fauvet-Rail drawing CO165607 Revision zero dated May 18, 1978, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in compliance with the following:

- (1) Code--Complies with ASME Section VIII except not certified.
- (2) Insulation - None.
- (3) Water Capacity (U.S. Gallons) - 4,240.

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- (4) Material - Carbon Manganese steel.  
Minimum tensile strength 82,380 psi.  
(similar to ASME SA 537 Grade A)
- (5) Tank Size (inches) -  

(outside dia.)	X (length)	X (thickness)
78.7	225	.650

  
Head Thickness - .710  
Weld Joint Efficiency - 100% full radiography of  
all pressure welds. Tank is stress relieved after  
welding.
- (6) Design Pressure (PSIG) - 338.  
Note: Design pressure means "maximum allowable  
working pressure (MAWP)" as used in the ASME Code:
- (7) Test Pressure, Minimum (PSIG) - 507.
- (8) Openings - One 18-inch manhole top.  
One 6-inch end opening, for inspection.  
Two 4-inch bottom outlets with quick closing  
valves.
- (9) Tank surface area (square feet) - 410.
- (10) Pressure Relief Devices - Two 2 1/2-inch spring  
loaded set to relieve at 338 psi and having total  
combined venting capacity of 1,108,500 SCFH.
- (11) G-Loadings: Vertical down 2; Vertical up 1;  
Longitudinal 2; and Transverse 1.
- (12) Maximum Gross Weight - 52,910 pounds.
- (13) Each internal shut off valve must be provided with  
remote control means of closure both mechanical  
and thermal. Fusible elements: not have a melting  
point exceeding 250°F.

b. TESTING - Each tank must be (i) visually inspected prior  
to each trip to insure that it has not been damaged on the  
previous trip; and (ii) be retested and reinspected in  
accordance with the provisions of § 180.605 except the use  
of an approval agency is not required.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modification or change is made to the package or its contents and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-E 8060."

d. Hydrostatic test certificates for each tank must be maintained by the owner or manufacturer at its principal business office and be made available to any representative of the DOT upon request.

e. No product may be shipped that has venting requirements exceeding 1,108,500 SCFH. The venting capacity required for each product must be determined by the flow formulas contained in Compressed Gas Association (CGA) pamphlet S-1.2.

f. A test report documenting a satisfactory ISO prototype frame test for this tank design must be on file with the OHMEA prior to the first shipment.

g. The tank must be filled in accordance with the provisions of § 173.315.

h. Portable tanks may not be transported in container-on-flat car (COFC) or trailer-on-flat car (TOFC) service except under conditions approved by the Associate Administrator for Safety, Federal Railroad Administration.

i. Transportation of Division 2.1 (flammable gases) materials are not authorized aboard cargo vessel unless specifically authorized in the Hazardous Materials Table (§ 172.101).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight and cargo vessel.

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10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this exemption.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

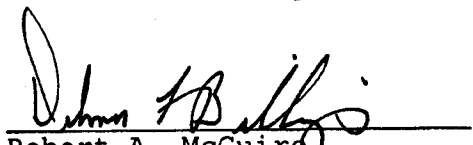
12. REPORTING REQUIREMENTS:

a. The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

b. The holder of this exemption, as identified in paragraph 1 above, shall contact the OHMEA immediately after any of the tanks covered by this exemption are sold to another party.

c. Shippers who ship under the terms of this exemption shall report any incident involving loss of contents or tank failure to the Associate Administrator for Hazardous Materials Safety as soon as practicable.

Issued in Washington, D.C.:



Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: sln

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Chlorine Service Company Cedex, FR (U.S. Agent: Aris Antoniou, Kingwood, TX)	Jun 7, 2004	JUN 29 2004	Apr 30, 2006
Societe Nationale de Wagons-Reservoirs, Paris, FR (US Agent: Michel L. Morin Montclair, NJ)	May 17, 2004	June 1, 2004	Apr 30, 2006

*Robert A. McGuire*  
Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

JUN 29 2004  
Date